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DOCKET NO.: 9550-019-27

ASSISTANT COMMISSIONER FOR PATENTS
PO BOX 1450
ALEXANDRIA, VA 22313-1450

Re: Serial No.: 10/044,708
Applicant(s): YONGCHANG QIU, ET AL.
Filing Date: OCTOBER 22, 2001
For: ISOTOPE-CODED IONIZATION-ENHANCING REAGENTS (ICIER)
FOR HIGH-THROUGHPUT PROTEIN IDENTIFICATION AND
QUANTITATION USING MATRIX-ASSISTED LASER DESORPTION
IONIZATION MASS SPECTROMETRY
Group Art Unit: 1642
Examiner: UNASSIGNED

SIR:

Attached hereto for filing are the following papers:

INFORMATION DISCLOSURE STATEMENT
INTERNATIONAL SEARCH REPORT
PTO FORM 1449
CITED DOCUMENTS (4)

Our check in the amount of \$ -0- is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary extension of time to make the filing of the attached documents timely, please charge or credit the difference to Deposit Account No. 50-1442. Further, if these papers are not considered timely filed, then a request is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

PIPER RUDNICK LLP

Steven B. Kelber
Attorney of Record
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

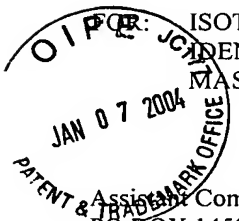
IN RE APPLICATION: YONGCHANG QIU, ET AL.

GROUP ART UNIT: 1642

SERIAL NUMBER: 10/044,708

EXAMINER: UNASSIGNED

FILED: OCTOBER 22, 2001



ISOTOPE-CODED IONIZATION-ENHANCING REAGENTS (ICIER) FOR HIGH-THROUGHPUT PROTEIN IDENTIFICATION AND QUANTITATION USING MATRIX-ASSISTED LASER DESORPTION IONIZATION MASS SPECTROMETRY

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Assistant Commissioner for Patents
PO BOX 1450
ALEXANDRIA, VA 22313-1450

Sir:

Applicant(s) wish(es) to disclose the following information.

REFERENCES

- Applicant(s) wish(es) to make of record the documents listed on the attached International Search Report (except AJ, AK and AL which are already of record) and Form PTO-1449. Copies of the listed documents are attached, where required, as are either statements of relevancy or any readily available full or partial English translations of any non-English-language documents.

RELATED CASES

- Attached is a list of Applicant's(s') pending applications and issued patents which may be related to the present application. Copies of the documents, where required, are attached along with Form PTO-1449.

CERTIFICATION

The undersigned certifies that

- each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application for the first time (to the knowledge of the undersigned, having made reasonable inquiry) not more than three months prior to the filing of this statement.
- no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

BASIS FOR CONSIDERATION

This Information Disclosure Statement is filed:

- without fee and within three months of the filing date of the application.
- without fee and within three months of the date of entry of the U.S. national stage.
- without fee and before the mailing date of a first Office Action on the merits (to the knowledge of the undersigned).
- without fee and with the appropriate certification above.
- without fee and with a new CPA application.
- without fee and with a Request for Continued Examination.
- with fee and before the mailing date of any of a Final Office Action, Notice of Allowance or an action that otherwise closes prosecution (to the knowledge of the undersigned).
- with fee, appropriate certification above, and before payment of the Issue Fee.

DEPOSIT ACCOUNT

- Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 50-1442.

Respectfully submitted,
PIPER RUDNICK LLP

Steven B. Kelber
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Form PTO 1449

U.S. DEPARTMENT OF
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PATENT AND TRADEMARK
OFFICE

DOCKET NO.

SERIAL NO.

(Modified)

9550-019-27

10/044,708

APPLICANT

YONGCHANG QIU, ET AL.

FILING DATE

OCTOBER 22, 2001

GROUP ART UNIT

1642

LIST OF REFERENCES CITED BY APPLICANT
(Use Several Sheets if Necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO
	AD	WO 02/48717	6-20-2002	WIPO	
	AE				
	AF				
	AG				
	AH				

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AI	Mckendrick, et al., "Rapid Mass Spectrometric Determination of Preferred Irreversible Proteinase Inhibitors in Combinatorial Libraries", International Journal of Mass Spectrometry, 176(1-2):113-124 (1998).
	AJ	Sechi et al., "Modification of Cysteine Residue By Alkylation. A Tool in Peptide Mapping and Protein Identification", Analytical Chemistry, American Chemical Society, 70(24):5150-5158 (1998). Previously cited.
	AK	Gygi et al., "Quantitative Analysis of Complex Protein Mixtures Using Isotope-Coded Affinity Tags", Nature Biotechnology, 17(10):994-999 (1999). Previously cited.
	AL	Krause et al., "The Dominance of Arginine-Containing Peptides in MALDI-Derived Tryptic Mass Fingerprints of Proteins", Analytical Chemistry, 71(19):4160-4165 (1999). Previously cited.
	AM	Brancia, et al., "Improved Matrix-Assisted Laser Desorption/Ionization Mass Spectrometric Analysis of Tryptic Hydrolysates of Proteins Following Guanidination of Lysine-Containing Peptides", Rapid Communications in Mass Spectrometry, 14(21):2070-2073 (2000).
	AN	Kratzer, et al., "Suppression Effects i Enzymatic Peptide Ladder Sequencing Using Ultraviolet - Matrix Assisted Laser Desorption/Ionization - Mass Spectrometry", Electrophoresis, 19(11):1910-1919 (1998).

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.